



Date: July 13, 2018
To: Andrew Schmidt, Environmental Protection Agency
From: Laura Lynch, Town of Breckenridge Water Division Manager
Subject: Second Quarter Report for Wellington Oro (WEO) Mine Site Water Treatment Plant

The purpose of this memo is to provide a quarterly update on the status of the Wellington Oro (WEO) Mine Site Water Treatment Plant.

Plant state for the 2nd quarter was mostly discharge, with a few issues and maintenance procedures that caused us to recycle to the mine. BQE Water performed a site visit May 28- June 1, 2018. This visit consisted of programming modifications and work on the "auto" function of NaSH addition. This is still not perfected and has caused periods of high zinc levels. We are committed to using this method of controls, although sometimes we need to run the pump in manual in order to bring the zinc levels down. Auto control is recommended by BQE Water and they are continually making adjustments after our input. Additionally, our AA was down for about a week so we couldn't test zinc in-house. This happened at the same time we were struggling with auto control of NaHS, so we exceeded our average zinc discharge limit for the month of June.

Another challenge we have been trying to troubleshoot is our lack of visibility in our clarifier. Ever since we cleaned our flocculant mix tank, our visibility has suffered. We are currently performing jar tests to try to get it back in line.

On June 9, 2018, an FG6C pump stopped working, so we overflowed the weir for approximately 11 hours. Refer to June 9th email for details.

There were several minor plant upsets and maintenance issues that caused the plant to recycle water back up to the mine. Those factors include:

- Sodium bicarbonate issues: tripped pump, maintenance, clogged line, etc.
- High filter pressure causing a high tank level in the filter feed tank
- CPU card in the PLC going bad and needing replaced

All factors causing the plant to go into recycle have been resolved.

The following modifications and improvements have been made at the WEO plant:

- Both FG6C pumps replaced and new spares purchased
- Replacement of clarifier rake motor contactor
- Floc dose adjustments determined by jar tests

Upcoming maintenance activities include:



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- Annual pump and motor preventative maintenance
- Continued jar testing
- Jetting of lines
- Clarifier inspection

Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Laura Lynch

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